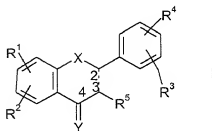


Patent Claims

1. A compounds of the formula I



5

where

X is O, S or NH;

Y is O, S or NH;

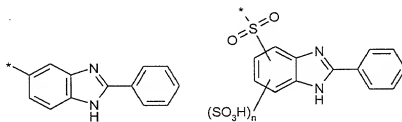
10 a single or double bond may be provided between carbons C-2 and C-3,

R¹ and R², and R³ and R⁴ may be provided at any positions on the ring, and also

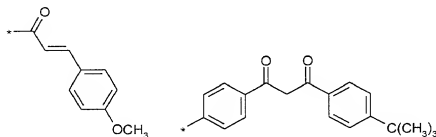
15 R¹, R², R³, R⁴ and R⁵ may be identical or different and independently of one another are -H, -OH or -OA,

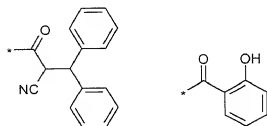
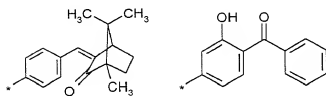
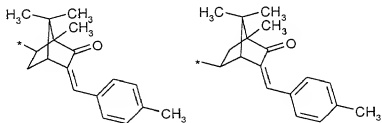
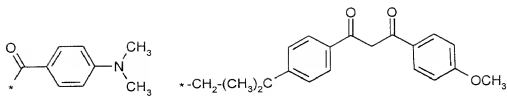
and

A is a group which absorbs UV radiation selected from the group formed from:

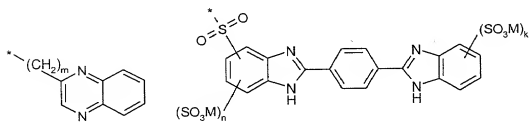


20





5



where $n = 0, 1, 2$ or 3

$m = 0$ or 1

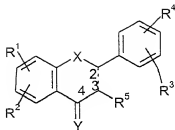
$k = 0, 1, 2, 3$ or 4

$M = H, Na$ or K

and at least one of the groups R^1, R^2, R^3, R^4 or R^5 is formed by $-OA$.

15

2. A compound of formula I



5 where

X is O, S or NH;

Y is O, S or NH;

a single or double bond may be provided between carbons C-2 and C-3,

10 R¹ and R², and R³ and R⁴ may be provided at any positions on the ring, and also

R¹, R², R³, R⁴ and R⁵ may be identical or different and independently of one another are -H, -OH or -OA,

in addition R¹, R², R³, R⁴ and R⁵, independently of one another, can stand for a

15 • straight-chain or branched oxyalkyl or carboxyalkyl group having 1 to 12 carbon atoms,

• straight-chain or branched oxyalkenyl or carboxyalkenyl group having 2 to 12 carbon atoms,

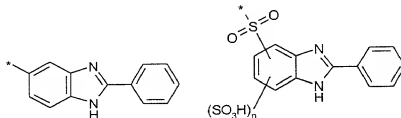
20 • straight-chain or branched hydroxyoxyalkyl group having 1 to 12 carbon atoms, where the hydroxyl group may be bonded to a primary or secondary carbon atom and, furthermore, the alkyl chain can also be interrupted by oxygen,

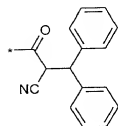
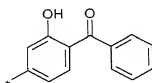
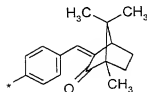
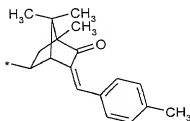
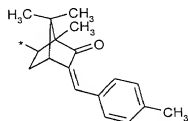
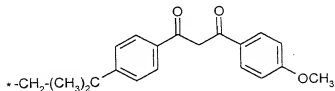
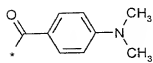
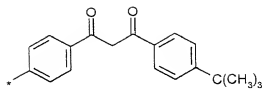
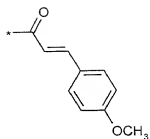
• sulphate group,

• phosphate group

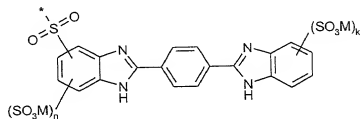
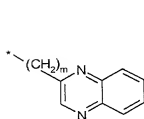
25 • and a mono- or oligoglycosyl radical, and

A is a group which absorbs UV radiation selected from the group formed from:





5



where $n = 0, 1, 2$ or 3

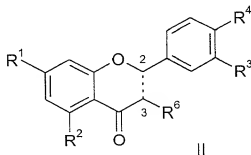
$m = 0$ or 1

$k = 0, 1, 2, 3$ or 4

$M = H, Na$ or K

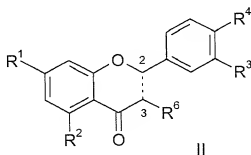
5 and at least one of the groups R^1, R^2, R^3, R^4 or R^5 is formed by $-OA$.

3. A compound according to Claim 1, wherein said compound is of formula II



10

4. A compound according to Claim 2, wherein said compound is of formula II



15

5. In a cosmetic or pharmaceutical formulation comprising an active ingredient and a physiologically acceptable carrier, the improvement wherein said formulation comprises at least one compound according to Claim 1.

20

6. In a cosmetic or pharmaceutical formulation comprising an active ingredient and a physiologically acceptable carrier, the improvement wherein said formulation comprises at least one compound according to Claim 2.

25

7. In a cosmetic or pharmaceutical formulation comprising an active ingredient and a physiologically acceptable carrier, the improvement wherein said formulation comprises at least one compound according to Claim 3.

8. In a cosmetic or pharmaceutical formulation comprising an active ingredient and a physiologically acceptable carrier, the improvement wherein said formulation comprises at least one compound according to Claim 4.

5 9. A cosmetic formulation according to Claim 5, where the formulation comprises one or more additional UV filters and/or antioxidants.

10. A cosmetic formulation according to Claim 6, where the formulation comprises one or more additional UV filters and/or antioxidants.

10

11. A method for protecting the body's cells of a patient against oxidative stress, in particular for reducing skin ageing, comprising administering to said patient a formulation according to claim 5.

15

12. A method for protecting the body's cells of a patient against oxidative stress, in particular for reducing skin ageing, comprising administering to said patient a formulation according to claim 6.

20

13. An enriched foodstuff comprising a foodstuff and at least one compound according to Claim 1.

25 14. An enriched foodstuff comprising a foodstuff and at least one compound according to Claim 2.

15. A compound according to Claim 1 as medicaments.

16. A compound according to Claim 2 as medicaments.

30

17. Use of a compound according to Claim 2 for the preparation of a medicament against oxidative stress, in particular for reducing skin ageing.

35 18. Use of a compound according to Claim 2 for the preparation of a medicament for the treatment of inflammations or allergic reactions.

19. Use of a compound according to Claim 2 as antioxidant, in particular for cosmetic formulations.

20. Use of compounds according to Claim 2 for the stabilization of UV filters, in particular dibenzoylmethane and derivatives of dibenzoylmethane.





















